INCH-POUND

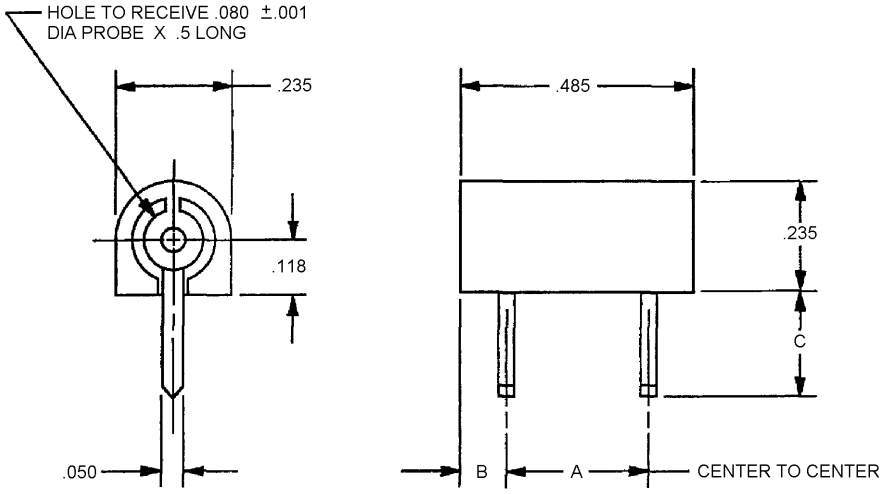
MIL-DTL-39024/13B
3 February 2003
SUPERSEDING
MIL-C-39024/13A
9 June 1978

DETAIL SPECIFICATION SHEET

CONNECTORS, ELECTRICAL, TEST POINT TYPE, PRINTED WIRING TYPE; SINGLE TEST POINT (RIGHT ANGLE, 2-LEG MOUNTING), LOW VOLTAGE, .080

This specification is approved for use by all Departments and Agencies of the Department of Defense.

The requirements for acquiring the product described herein shall consist of this specification and MIL-DTL-39024.



Inches	mm
.001	0.03
.050	1.27
.080	2.03
.118	3.00
.235	5.97
.485	12.32
.5	12.7

NOTES:
1. Dimensions are in inches. See table for dimensions not shown on figure 1.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerances are ± .010 (0.25 mm), and are based on 1 inch = 25.4 mm.
4. All undimensioned pictorial configurations are for reference purposes only.

FIGURE 1. Configuration and dimensions.

TABLE I. Design and identification data.

Dash number	Dimensions (inches) 1/			Insulation	
	A ± .010 (0.25)	B ± .015 (0.38)	C ± .015 (0.38)	Color	Number in accordance with FED-STD-595
-01	.300 (7.62)	0.060 (1.52)	0.218 (5.54)	White	17875
-02	"	"	"	Red	11105
-03	"	"	"	Black	17038
-04	"	"	"	Brown	10075
-05	"	"	"	Green	14110
-06	"	"	"	Orange	12246
-07	"	"	"	Blue	15123
-08	"	"	"	Yellow	13655
-09	"	"	"	Gray	16187
-10	"	"	"	Purple	27144
-11	"	"	"	Natural	---
-12	.400 (10.16)	.025 (0.64)	.175 (4.45)	White	17875
-13	"	"	"	Red	11105
-14	"	"	"	Black	17038
-15	"	"	"	Brown	10075
-16	"	"	"	Green	14110
-17	"	"	"	Orange	12246
-18	"	"	"	Blue	15123
-19	"	"	"	Yellow	13655
-20	"	"	"	Gray	16187
-21	"	"	"	Purple	27144
-22	"	"	"	Natural	---

1/ Metric equivalents are in parentheses.

REQUIREMENTS:

Design and construction:

Dimensions and configuration: See figure 1 and table I.

Insulation: Material shall be polyamide in accordance with L-P-410 or ASTM D4066.

Flammability: Dielectric materials shall be self-extinguishing in accordance with ASTM D635.

Test probe: 0.080 ± 0.001-inch diameter and ½ inch (min) length. Test probe shall be engaged a minimum of ½ inch.

Contact current rating: 5 amperes (maximum).

Contact sleeve: Shall be formed of strip to make a cylinder with a butted seam.

Contact resistance: A test probe in accordance with MIL-DTL-39024 shall be fully inserted in the connector. With a current of 5 amperes, potential drop shall be measured between the connector terminal and the extreme end of the solder cup on the test probe. Measured values shall be within the limits specified in table II.

TABLE II. Potential drop (max) with 5 amperes of current.

Test	Before test	After test
Durability	6 mV	8 mV
Vibration	8 mV	10 mV
Salt spray (corrosion)	10 mV	15 mV

Dielectric withstanding voltage (at sea level):

Test voltage: 3,800 volts rms, 60 hertz, shall be applied for a period of 15 seconds.

Insertion and withdrawal forces:

Insertion force: 5.0 pounds (max).
Withdrawal force: 0.4 pound (min).

Identification marking:

Part or Identifying Number (PIN): M39024/13-(dash number from table I).

Operating conditions:

Operating voltage: 2,400 volts rms, 60 hertz at sea level; 350 volts rms, 60 hertz at 80,000 feet.

Note: Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extent of the changes.

CONCLUDING MATERIAL

Custodians:
Army - CR
Navy - EC
Air Force - 11
DLA - CC

Review activities:
Army - AR, CR4, MI
Navy - AS, CG, MC, OS
Air Force - 19

Preparing activity:
DLA - CC

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